

1 BILL NO. S-81-07- 30

2 SPECIAL ORDINANCE NO. S- 177-81

3
4 AN ORDINANCE approving Change Order
5 Number 25 in connection with the
6 Water Pollution Control Plant Expansion,
7 Division I.

8 BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT
9 WAYNE, INDIANA:

10 SECTION 1. That Change Order Number 25 to Hagerman Con-
11 struction Company and Shambaugh & Sons, Inc., in connection with
12 the Water Pollution Control Plant Expansion, Division I, for:

13 the providing of independent ventilation
14 of the engine generator enclosures and
15 the blower enclosures thereby permitting
16 simultaneous operation of two 300 HP
17 blowers and one engine generator. Also
18 said change order provides for a credit
19 for the air conditioner in the aeration
20 control room because unit is not compatible
21 with major remodeling project designed
22 for advanced wastewater treatment Phase A
23 construction project,

24 in the amount of \$121,170.00, as set out in the specifications,
25 which are on file in the Office of the Board of Public Works
26 and are by reference incorporated herein and made a part hereof,
27 be and the same is in all things ratified, confirmed and ap-
28 proved.

29 SECTION 2. That this Ordinance shall be effective from
30 and after its passage and approval by the Mayor.

31 
COUNCILMAN

32 APPROVED AS TO FORM AND
LEGALITY JULY 10, 1981.

33 
BRUCE O. BOXBERGER, CITY ATTORNEY

Read the first time in full and on motion by Burns, seconded by Gustaf, and duly adopted, read the second time by title and referred to the Committee City Notes (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on 7, 1981, the 1 day of July, at 9 o'clock P. M., E.S.T.

DATE: 7-14-81

Charles W. Westerman
CHARLES W. WESTERMAN
CITY CLERK

Read the third time in full and on motion by Burns, seconded by Gustaf, and duly adopted, placed on its passage. PASSED (Lost) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>9</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>BURNS</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>EISBART</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>GIAQUINTA</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>NUCKOLS</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCHMIDT, D.</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCHMIDT, V.</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>SCHOMBURG</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>STIER</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>TALARICO</u>	<u>✓</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

DATE: 7-28-81

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ZONING MAP) (GENERAL) (ANNEXATION) (SPECIAL) (APPROPRIATION) ORDINANCE (RESOLUTION) No. S-177-81 on the 28th day of July, 1981.

ATTEST:
Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

(SEAL)
John Nuckols
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 29th day of July, 1981, at the hour of 1:00 o'clock P. M., E.S.T.

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Approved and signed by me this 5th day of August 1981, at the hour of 4 o'clock P. M., E.S.T.

Winfield C. Moses, Jr.
WINFIELD C. MOSES, JR.
MAYOR

BILL NO. S-81-07-30

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON City Utilities TO WHOM WAS REFERRED AN
ORDINANCE approving Change Order Number 25 in connection with the
Water Pollution Control Plant Expansion, Division I

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT
BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE PASS.

PAUL M. BURNS, CHAIRMAN

VIVIAN G. SCHMIDT, VICE CHAIRMAN

BEN A. EISBART

SAMUEL J. TALARICO

ROY J. SCHOMBURG

CONCURRED IN
DATE 7/28/81 CHARLES W. WESTERMAN, CITY CLERK

Memorandum

To Board of Public Works *Philip R. Boller* Date June 22, 1981
From Philip R. Boller, Director of Water Resources
Subject Change Order No. 25, Water Pollution Control Plant Expansion Div. I

COPIES TO:

N. Wisler

I recommend Board of Public Works approval of the attached Change Order No. 25 and ask that the Board expedite this change order by asking Prior Approval from Common Council at their next scheduled meeting June 23, 1981.

Said change order is required to provide independent ventilation of the engine generator enclosures and the blower enclosures thereby permitting simultaneous operation of two (2) 300 HP blowers and one (1) engine generator.

Also, said change order provides for a credit for the air conditioner in the aeration control room because unit is not compatible with major remodeling project designed for Advanced Wastewater Treatment Phase A construction project.

Council
7/14/81

70-216-2
6/18/81

PROJECT Water Quality Control Project OWNER City of Fort Wayne, IndianaDIVISION/SECTION I - Water Pollution Control Plant AdditionsCHANGE ORDER NO. 25

TO: Hagerman-Shambaugh, Joint Bidders
c/o Hagerman Construction Company
510 West Washington Blvd.
P.O. Box 10690
Fort Wayne, IN 46853

You are hereby authorized to make the following additions and/or deductions to your contract amount.

	Previous Contract Amount	Increase	Decrease	Net Change (Add)	Revised Contract Amount
TOTAL	\$ 22,044,808.39	\$ 121,559.00	\$ 389.00	\$ 121,170.00	\$ 22,165,978.39

Description of Change:AddDeduct

Item No. 1 Engine-Generator Enclosure
System Modifications

\$121,559.00

Delete inlet air duct sheet metal work per contract drawing HVAC-4. Furnish and install air duct supply and exhaust sheet metal work and ventilation fans per Drawings C.O. 25-1,2,3 and 4. Delete removal of existing wall louvers and heating coils on east wall per contract drawings HVAC-4. Add manual control valves to heating coils. The following is a breakdown of cost:

a. Mechanical Subcontractor

- 1) Credit for deleted sheet metal work
(\$5,293)
- 2) Add for new sheet metal work and ventilation fans \$73,119
- 3) Credit for deleting wall louver and heating coil removal
(\$694)
- 4) Add for new manual control valves to heating coils \$2,382
- 5) Overhead \$3,476
- 6) Profit \$3,399
- 7) Total \$76,389

b. Painting work

- 1) Labor \$4,680
- 2) Materials \$2,520
- 3) Total \$7,200

CHANGE ORDER NO. 25PAGE 2

Description of Change:

AddDelete

c. Electrical Subcontractor

1) Labor \$12,476
2) Material \$ 5,839
3) Overhead \$ 2,747
4) Profit \$ 1,053
5) Total \$22,115

d. Subtotal a thru c

\$105,704

e. Prime Contractor

1) Overhead \$10,570
2) Profit \$ 5,285

f. Total \$121,559

Item No. 2 Delete Air Conditioner at AerationControl Room Shown on Contract Drawing E-11

\$389

Material Credit \$325
Labor Credit \$ 64
Total Credit \$389

The work contained in this change order shall be completed within 240 days after issuance of an order to proceed. The contract completion date shall be appropriately extended.

RECOMMENDED:

HOWARD NEEDLES TAMMEN & BERGENDOFF

BY [Signature]Title President Date 6/18/81

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
CONTRACTOR

By [Signature]Title Ch. Bd. Date 6-19-81

ACCEPTED FOR SHAMBAUGH & SON, INC.
CONTRACTOR

By [Signature]Title Asst. Secy. Date 6-19-81

APPROVED:

CITY OF FORT WAYNE, INDIANA
OWNER

BY [Signature]

Chairman
Member

Member

Title BOARD OF PUBLIC WORKS

Date 6-18-81

CHANGE ORDER JUSTIFICATION

CHANGE ORDER NO. 25 - HVAC MODIFICATIONS

ITEM NO. 1 - ENGINE GENERATOR ENCLOSURE SYSTEM MODIFICATIONS

Radiant heat is generated at an approximate rate of 900,000 BTU/hr. during the operation of one engine generator. No more than 24,000 cfm of ventilation air is required to maintain the air temperature in the enclosure below 105°F when the outside air temperature is below 71°F. The ventilation system capacity per plan sheet HVAC-4 is 24,000 cfm.

Both 300 HP blowers radiate heat at an approximate rate of 530,000 BTU/hr. Adding this heat load to the heat load from one engine generator, the ambient air temperature must be below 51°F in order to maintain an enclosure temperature below 105°F, given 24,000 cfm ventilation capacity. However, the roof ventilators could add 10,420 cfm to the ventilation capacity if the outside doors to the engine generator enclosure are opened. As a result, the ambient air temperature could be as high as 67°F to maintain an enclosure temperature of 105°F.

The proposed ventilation change provides independent ventilation of the engine generator enclosures and the blower enclosure, thereby permitting the simultaneous operation of two 300 HP blowers and one engine generator at a design ambient temperature of 82°F without opening any outside enclosure doors. This change can be implemented without the removal of any previously installed equipment and fully utilizes all completed HVAC work and materials.

ITEM NO. 2 - DELETE AIR CONDITIONER AT AERATION CONTROL ROOM

The air conditioner for the aeration control room (see Plan Sheet E-11) is proposed to be deleted because the unit is not compatible with major remodeling project designed for AWT Phase A construction project.



THE CITY OF FORT WAYNE

CITY-COUNTY BUILDING • ONE MAIN STREET • FORT WAYNE, INDIANA 46802

board of public works

June 19, 1981

The Common Council
Fort Wayne, Indiana

SUBJECT: CHANGE ORDER #25, DIVISION 1, WATER POLLUTION CONTROL PLANT
EXPANSION, FEDERAL GRANT NUMBER C-180538-01.

Gentlemen and Mrs. Schmidt:

Change order #25 with Hagerman-Shambaugh Contractors in the amount of \$121,170.00 has been approved by the Board of Public Works.

Said change order is required to provide independent ventilation of the engine generator enclosures and the blower enclosures thereby permitting simultaneous operation of two (2) 300 HP blowers and one (1) engine generator.

Also, said change order provides for a credit for the air conditioner in the aeration control room because unit is not compatible with major remodeling project designed for Advanced Wastewater Treatment Phase A construction project.

In order to avoid any delay in construction, the Board respectfully requests a "Prior Approval" of the Change Order.

Special Ordinance for formal approval will be introduced in the near future.

Yours truly,

BOARD OF PUBLIC WORKS

Bruce R. Collins
Robert Anderson

CITY OF FORT WAYNE

Win Moses, Jr.
WIN MOSES, JR., MAYOR

approved:

Samuel J. Talarico
Samuel J. Talarico

Joe Little
Joe Little

Mark E. Dwyer
Vivian M. Schmidt

attest:

Charles W. Hesterman
CITY CLERK

TITLE OF ORDINANCE CHANGE ORDER #25, WATER POLLUTION CONTROL PLANT EXPANSION, DIVISION I

C-180538-01

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS

1-81-07-30

SYNOPSIS OF ORDINANCE CHANGE ORDER #25, WATER POLLUTION CONTROL PLANT EXPANSION, DIVISION I

FEDERAL GRANT NO. C-180538-01. SAID CHANGE ORDER IS REQUIRED TO PROVIDE INDEPENDENT

VENTILATION OF THE ENGINE GENERATOR ENCLOSURES AND THE BLOWER ENCLOSURES THEREBY

PERMITTING SIMULTANEOUS OPERATION OF TWO 300 HP BLOWERS AND ONE ENGINE GENERATOR. ALSO

SAID CHANGE ORDER PROVIDES FOR A CREDIT FOR THE AIR CONDITIONER IN THE AERATION CONTROL

ROOM BECAUSE UNIT IS NOT COMPATIBLE WITH MAJOR REMODELING PROJECT DESIGNED FOR ADVANCED
WASTEWATER TREATMENT PHASE A CONSTRUCTION PROJECT.

PRIOR APPROVAL ACQUIRED JUNE 19, 1981 AND ATTACHED.

EFFECT OF PASSAGE CONTINUATION OF THE WATER POLLUTION CONTROL PLANT EXPANSION, DIVISION I.

EFFECT OF NON-PASSAGE THE ABOVE DESCRIBED PROJECT CANNOT BE COMPLETED.

MONEY INVOLVED (DIRECT COSTS, EXPENDITURES, SAVINGS) \$121,170.00 (75% EPA Paid), (10% State
Paid), (15% City Utilities)

ASSIGNED TO COMMITTEE _____